

Editors

Prof. M. Flytzani-Stephanopoulos
 Department of Chemical and
 Biological Engineering
 Tufts University
 4 Colby St. Medford, MA 02155
 E-mail: mflytzan@tufts.edu

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Department of Chemical Engineering
 Pohang Univ. of Science & Technology
 Hyoja San 31 Nam-gu
 Pohang, Republic of Korea
 E-mail: isnam@postech.ac.kr

Prof. X. Verykios

Dept. of Chemical Engineering
 University of Patras
 GR 26504 Patras
 Greece
 E-mail: verykios@rea.chemeng.upatras.gr

Dr. R. McCabe
 Dept. of Chemical Engineering
 Ford Motor Company
 2101 Village Road, MD3179/RIC, MI 48121
 Michigan, USA
 E-mail: bobmccabe03@gmail.com

Prof. Hiromi Yamashita
 Division of Materials and Manufacturing
 Science
 Graduate School of Engineering Osaka
 University
 2-1 Yamada-oka, Suita Osaka 565-0871
 Japan
 E-mail: yamashita@mat.eng.osaka-u.ac.jp

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 School of Chem. & Bio. Engineering
 Seoul National University 1 Gwanak-ro,
 Gwanak-gu Seoul, Republic of Korea
 E-mail: ysung@snu.ac.kr

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 Department of Chemistry
 Shanghai Normal University
 100 Guilin R Shanghai, China
 E-mail: Hexing-li@shnu.edu.cn

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 Tsinghua University,
 Beijing, China
 Email: zhuyp@tsinghua.edu.cn

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 E-mail: adrian@fe.up.pt

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- Basic understanding of catalysts used in environmental pollution abatement, especially as applied to industrial processes
- All aspects of preparation, characterization, activation, deactivation and regeneration of novel and commercially applicable environmental catalysts
- New catalytic routes and processes for the production of clean energy, such as in hydrogen generation via catalytic fuel processing; and new catalysts and electrocatalysts for fuel cells
- Catalytic reactions in which wastes are converted to useful products
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- Scientific aspects of photocatalytic processes and basic understanding of photocatalysts as applied to environmental problems
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